

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 101574, 405A  
Source: JFEND  
Date Processed by STIC: 4/27/87

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## RAW SEQUENCE LISTING

DATE: 04/27/2007

PATENT APPLICATION: US/10/574,405A

TIME: 11:30:24

Input Set : A:\31689 Sequence Listing Filed W Res to Miss Req of 21 FEB

07.txt

Output Set: N:\CRF4\04272007\J574405A.raw

3 <110> APPLICANT: Gazit , Ehud  
 4 Cherny, Izhack  
 6 <120> TITLE OF INVENTION: NOVEL ANTIBACTERIAL AGENTS AND METHODS OF IDENTIFYING AND  
 7 UTILIZING SAME  
 9 <130> FILE REFERENCE: 31689  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/574,405A  
 C--> 11 <141> CURRENT FILING DATE: 2006-03-31  
 11 <160> NUMBER OF SEQ ID NOS: 132  
 13 <170> SOFTWARE: PatentIn version 3.2  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 19  
 17 <212> TYPE: DNA  
 18 <213> ORGANISM: Artificial sequence  
 20 <220> FEATURE:  
 21 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
 23 <400> SEQUENCE: 1  
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 27 <210> SEQ ID NO: 2  
 28 <211> LENGTH: 23  
 29 <212> TYPE: DNA  
 30 <213> ORGANISM: Artificial sequence  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
 35 <400> SEQUENCE: 2  
 36 gacaagcttactttatg 23  
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 40 <211> LENGTH: 19  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Artificial sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
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 51 <210> SEQ ID NO: 4  
 52 <211> LENGTH: 26  
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 54 <213> ORGANISM: Artificial sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
 59 <400> SEQUENCE: 4  
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 63 <210> SEQ ID NO: 5  
 64 <211> LENGTH: 24

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65 <212> TYPE: DNA  
 66 <213> ORGANISM: Artificial sequence  
 68 <220> FEATURE:  
 69 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
 71 <400> SEQUENCE: 5  
 72 gtacaatgaa ctgtacaaaa gaag 24  
 75 <210> SEQ ID NO: 6  
 76 <211> LENGTH: 26  
 77 <212> TYPE: DNA  
 78 <213> ORGANISM: Artificial sequence  
 80 <220> FEATURE:  
 81 <223> OTHER INFORMATION: Single strand DNA oligonucleotide  
 83 <400> SEQUENCE: 6  
 84 cctttgaagc ttttcaataa tgataa 26  
 87 <210> SEQ ID NO: 7  
 88 <211> LENGTH: 13  
 89 <212> TYPE: PRT  
 90 <213> ORGANISM: Artificial sequence  
 92 <220> FEATURE:  
 93 <223> OTHER INFORMATION: Synthetic peptide  
 95 <400> SEQUENCE: 7  
 97 Arg Thr Ile Ser Tyr Ser Glu Ala Arg Gln Asn Leu Ser  
 98 1 5 10  
 101 <210> SEQ ID NO: 8  
 102 <211> LENGTH: 13  
 103 <212> TYPE: PRT  
 104 <213> ORGANISM: Artificial sequence  
 106 <220> FEATURE:  
 107 <223> OTHER INFORMATION: Synthetic peptide  
 109 <400> SEQUENCE: 8  
 111 Arg Thr Ile Ser Tyr Ser Glu Ala Ala Gln Asn Leu Ser  
 112 1 5 10  
 115 <210> SEQ ID NO: 9  
 116 <211> LENGTH: 13  
 117 <212> TYPE: PRT  
 118 <213> ORGANISM: Artificial sequence  
 120 <220> FEATURE:  
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 129 <210> SEQ ID NO: 10  
 130 <211> LENGTH: 252  
 131 <212> TYPE: DNA  
 132 <213> ORGANISM: Actinobacillus actinomycetemcomitans  
 134 <400> SEQUENCE: 10  
 135 atgaatgtaa taagtattc tgcgttcgt gcagaattgg caaccacact tgatcagg 60  
 137 gtagcagatc atagcccaagt catgattacc agacaaaatg gcaaacacgc tggtaatg 120  
 139 agtttagaag atttcgcagc ttacgaagaa acggcttatt tattacgcag ccccaaaaat 180

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141	agagagcggtt tattagcctc tattgaccag ctcaattcag gtaaaatcat cgaacgggaa	240
143	ctccaggaat ga	252
146	<210> SEQ ID NO: 11	
147	<211> LENGTH: 255	
148	<212> TYPE: DNA	
149	<213> ORGANISM: <i>Actinobacillus actinomycetemcomitans</i>	
151	<400> SEQUENCE: 11	
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154	aaaaagacgt tggcgcat taataaactt atccaaaata ttaccagatc acctttcgaa	120
156	ggcttaggca atcctaaacc tttaaaacat cagttatccg gggtttggtc tagaagaata	180
158	gataaagagc atcgcttgc ataccaagta tcggatagcc atttaacgat tattcaatgc	240
160	cgctatcact actaa	255
163	<210> SEQ ID NO: 12	
164	<211> LENGTH: 255	
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166	<213> ORGANISM: <i>Agrobacterium tumefaciens</i>	
168	<400> SEQUENCE: 12	
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171	ctggaaaccc gcgcgcatt gctgtcactc cgccaaggca aagaggcggt cgtggcgctt	120
173	gccgaaggag aatatgagag catgcaggaa acgctgcatt tcctgtccaa cccggcaaat	180
175	gcctcaaggc ttgcgcgc ttcggcgaa cttgagcgcg gtgacaccat cgagcgggat	240
177	ccgaccgaag aatga	255
180	<210> SEQ ID NO: 13	
181	<211> LENGTH: 270	
182	<212> TYPE: DNA	
183	<213> ORGANISM: <i>Agrobacterium tumefaciens</i>	
185	<400> SEQUENCE: 13	
186	atgaagctcg tctggacgct gagttcatgg gacgactatg agttctggca aagaaccgat	60
188	gctcgatgg tcgagaaaat aaacgatctt atccgaaatg ccaaacgcac gcccttgca	120
190	gggcttggga aaccggagcc tctgaaggcc gatatggcag gatattggtc tcggcggatt	180
192	accgcccggc atcggttgc ctaccgtta tccgggtccg gaagcgagca acggctggaa	240
194	gtcattcagt gccgttcca ttaccaataa	270
197	<210> SEQ ID NO: 14	
198	<211> LENGTH: 246	
199	<212> TYPE: DNA	
200	<213> ORGANISM: <i>Burkholderia cepacia</i>	
202	<400> SEQUENCE: 14	
203	atgaacgtcc ttacttatacg cgaggcgcgt gccggcttca agcaggcgat ggacgacgtc	60
205	tgccgcgatc acataccat gctgatcactc aggacgacgg gcgaaaacgt ggtgatggtt	120
207	tgcgtcgccg atttcaatgc gatgcaggag accttgcattc tggtgatggc gtcgaaac	180
209	gcccagcggc tgcggcgatc tatcgctcaa ctgaacgcgg gcggcgatc tgccgtgaa	240
211	ctgtctg	246
214	<210> SEQ ID NO: 15	
215	<211> LENGTH: 252	
216	<212> TYPE: DNA	
217	<213> ORGANISM: <i>Burkholderia cepacia</i>	
219	<400> SEQUENCE: 15	
220	atgttcaccc acgacgcgtc ggacgattac ctgtattggc aagagaccga ccgaaaggc	60
222	gtgcgcaaga tcaacacgct gctggaggag tgccggcgatc atccttatcg cggtacgggg	120

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224 aaaccggagg cggtgatggg cagcatgagc ggattgtggc ctcggcgat cacgctggcc 180  
 226 gaccgtcttg tctacttgcc gcgagacgga aagatctacg tgatcgccct tcgcttccac 240  
 228 tacgactgct ga 252  
 231 <210> SEQ ID NO: 16  
 232 <211> LENGTH: 255  
 233 <212> TYPE: DNA  
 234 <213> ORGANISM: Coxiella burnetii  
 236 <400> SEQUENCE: 16  
 237 atgaacgtag ttacttttag cgaactcagg gcgcactta aaaaaatctt ggatcttcc 60  
 239 gccgatcaac acgaacctgt cgtcgtaaa cggccaaata aagaaaccat ggtcatttt 120  
 241 tcttacgcg actttgaggc tctaaaagaa acagcttac tcttaagtaa cgaagcta 180  
 243 gcggcccgctc ttctcgatc tatccgcagc ttaaaaacaag gcaaggcaca aaaaaagaaa 240  
 245 ttaatgaaat attaa 255  
 248 <210> SEQ ID NO: 17  
 249 <211> LENGTH: 276  
 250 <212> TYPE: DNA  
 251 <213> ORGANISM: Coxiella burnetii  
 253 <400> SEQUENCE: 17  
 254 atgcaaaattt cttcacgccc cgaaggctgg gaagattatt tatattggca aaaaattcgac 60  
 256 aaaaaaaatgc ttgcacgcatt taatgaactc attaaggatg ctatgcacga gccttttcc 120  
 258 ggaaaggaa agccagaacc tttaaaattt gaattacaag gatattggc aagacgatta 180  
 260 gatcaagaac atcgattggc ctacaaagt tttagacgatt cgttaatgtat tatcgccgca 240  
 262 agatttcaact ataatcgccct taattctaaa aactga 276  
 265 <210> SEQ ID NO: 18  
 266 <211> LENGTH: 279  
 267 <212> TYPE: DNA  
 268 <213> ORGANISM: Escherichia coli  
 270 <400> SEQUENCE: 18  
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 273 aatttgcgg caacaatgtat gaaagccgtt gaagatcatg ccccgatcct tattactgt 120  
 275 cagaatggag aggctgtgt tctgatgtca ctcgaagaat acaactcgct ggaagagacg 180  
 277 gcttatctac tgcgtcccc cgttaacgccc cggagattga tggactcaat cgatagcctg 240  
 279 aaatcaggca aaggaacgga aaaggacatc attgagtga 279  
 282 <210> SEQ ID NO: 19  
 283 <211> LENGTH: 255  
 284 <212> TYPE: DNA  
 285 <213> ORGANISM: Escherichia coli  
 287 <400> SEQUENCE: 19  
 288 gtgaaaactaa tctggctgtt ggaatcatgg gacgattatc tgtactggca gggaaacagat 60  
 290 aagcgaattt ttaaaaagat caatgaactt atcaaagata cccgcagaac gccatttggaa 120  
 292 ggttaagggaa agccagaacc cctgaaacat aatttgcgtt gcttctggc cccgacgcatt 180  
 294 acagaggagc accgtctggc atacgcgtt accgacgatt cactgctcat tgcagcgtgt 240  
 296 cgttatcatt attga 255  
 299 <210> SEQ ID NO: 20  
 300 <211> LENGTH: 270  
 301 <212> TYPE: DNA  
 302 <213> ORGANISM: Enterococcus faecium  
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 305 atgaaacgac tagcttatttccaaatccgc caaaatttac gtagttat gaaacaagtt 60

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307	aatgaggatg	ctgaaacact	tattgtaca	agtaaagatg	tagaagatac	agttgttgta	120
309	ttatcaaaaa	gagattatga	ttctatgca	gaaacgttga	gaacacttgc	taataattac	180
311	gtcatggaaa	aaattcgtcg	aggagatgaa	caattctcca	aaggtgcatt	taaaaacacat	240
313	gacttaatcg	aggttgaatc	tgtatgattaa				270
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317	<211>	LENGTH:	258				
318	<212>	TYPE:	DNA				
319	<213>	ORGANISM:	Enterococcus faecium				
321	<400>	SEQUENCE:	21				
322	atgattaagg	cttggtctga	tgtatgcttgg	gatgattatc	tttattggca	tgagcaagga	60
324	aacaaaagca	atataaaaaaa	gattaacaag	ttaataaaag	atatcgatcg	ttcccccctt	120
326	gctggattag	aaaaacctga	gccattaaag	catgatttat	ctggaaaatg	gtccagaaga	180
328	attacagatg	aacatagact	gatatataga	gttggaaaatg	aaacgtatatt	tattttattct	240
330	gcaaaaagatc	actattaa					258
333	<210>	SEQ ID NO:	22				
334	<211>	LENGTH:	258				
335	<212>	TYPE:	DNA				
336	<213>	ORGANISM:	Francisella tularensis				
338	<400>	SEQUENCE:	22				
339	atgcaaaccg	ttaatttttc	aactttttaga	aatgaactat	ctgattcaat	ggatagagta	60
341	acaaaaaaatc	atagtccatat	gattgtact	agagggtcaa	aaaaagaagc	agttgttatg	120
343	atgtcggttag	aggattttaa	agcttatgaa	gaaacacgcct	atcttatgag	aagcatgaac	180
345	aactataaga	gactacaaaa	ttctattgtat	gaagtagaaat	ctggtttagc	tatccaaaaaa	240
347	gagttgattg	aagaatga					258
350	<210>	SEQ ID NO:	23				
351	<211>	LENGTH:	207				
352	<212>	TYPE:	DNA				
353	<213>	ORGANISM:	Francisella tularensis				
355	<400>	SEQUENCE:	23				
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358	aagaaaaaagc	taaaaacggat	taatttgcta	atcaaagaca	ttatgagaaa	tcacttttag	120
360	ggatttaggag	agcctgaacc	tttgaagacat	aatttctctg	gttattggtc	tagacgaata	180
362	gacaaaagaac	atctgaataa	tctataaa				207
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366	<211>	LENGTH:	222				
367	<212>	TYPE:	DNA				
368	<213>	ORGANISM:	Klebsiella pneumoniae				
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373	gtgacaggtg	tacctgtgac	cattaccgt	cgtgggcata	aatctgcagt	catcatttagt	120
375	gcagaagagt	ttgaacgcta	ccaggcggcc	agaatggatg	atgagttcgc	ggctatcatg	180
377	gcggttcatg	gtgatgagat	cagggagctt	gcggataaat	ga		222
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383	<213>	ORGANISM:	Klebsiella pneumoniae				
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388	gtcacgcctg	gcgttgcgg	tatgcccgt	ccggggcgtg	ccgaagcgat	aatgtatagg	120

**VERIFICATION SUMMARY**

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date